Bicycle and Pedestrian Safety Action Plan

for the Broward Metropolitan Planning Organization

Advocacy Team Meeting 1 April 19th, 2016



Introductions

Plan Purpose, Scope and Schedule Overview

Advocacy Team Roles and Responsibilities

Confirm BPSAP Goals, Objectives, and Initial Performance Measures

Overview of Countywide Assessment Findings

Discussion and Confirmation Working Session on 5 Corridors/Subareas:

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Purpose & Scope

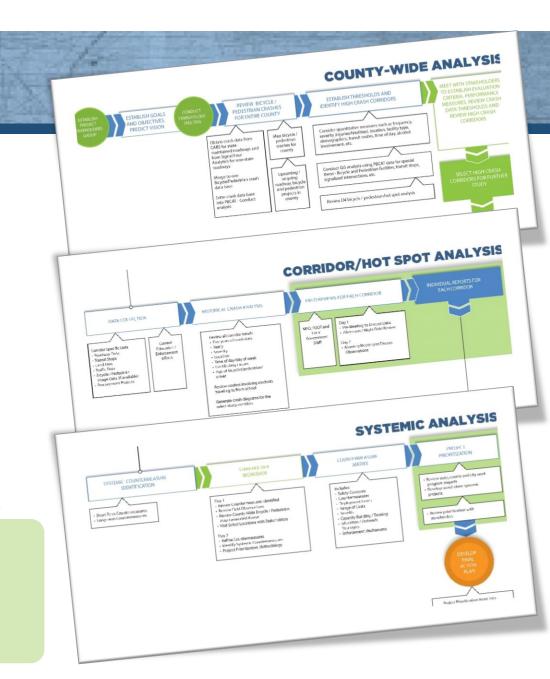
- Broward-Miami Dade is the #4 Most Dangerous Place for Pedestrians in the Country
- Plan to Reduce Pedestrian and Cyclist Injuries and Fatalities at County Scale
- Provide Guidance on Investments for Safer, More Connected Multimodal Facilities
- Produce Implementable Solutions for Bicycle and Pedestrian Safety and Comfort

BPSAP Approach

County-Wide Analysis

Corridor/Hot Spot Analysis

> Systemic Analysis



Schedule

Data Collection & Analysis

Hot Spot Identification Field Reviews & Further Analysis

Alternative and Countermeasure Identification

Recommendatior and Performance Measure Identification Implementation by the MPO, FDOT, Broward County, and Cities

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A-Team Responsibilities

- Be a champion of bicycle and pedestrian safety and the intended outcomes of the BPSAP
- Be a sales person on behalf of the BPSAP to funding partners
- Provide guidance and input throughout the project
- Be an advocate to get the word out and solicit input from others

Stakeholder Group Meetings & Workshop

Establish goals; evaluation criteria and performance measures; review data analysis findings; and confirm high crash corridors

2 Field Reviews

Review corridor/field observations; Review short and long-term systematic countermeasures; Confirm prioritization and evaluation criteria

Approve countermeasures & implementation plan; Confirm performance measures

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Fill in Based on Survey Results

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County-Wide Analysis

PROJECT

ESTABLISH GOALS AND OBJECTIVES. **PREDICT VISION**

REVIEW BICYCLE / PEDESTRIAN CRASHES FOR ENTIRE COUNTY

> Map bicycle / pedestrian crashes for county

Upcoming / ongoing roadway, bicycle and pedestrian projects in county

ESTABLISH THRESHOLDS AND IDENTIFY HIGH CRASH CORRIDORS

Consider quantitative measures such as frequency, severity (injuries/fatalities), location, facility type, demographics, transit routes, time of day, alcohol involvement, etc.

Conduct GIS analysis using PBCAT data for special items - Bicycle and Pedestrian facilities, transit stops, signalized intersections, etc.

Review D4 bicycle / pedestrian hot spot analysis

MEET WITH STAKEHOLDERS TO ESTABLISH EVALUATION CRITERIA, PERFORMANCE MEASURES, REVIEW CRASH **DATA THRESHOLDS AND REVIEW HIGH CRASH CORRIDORS**





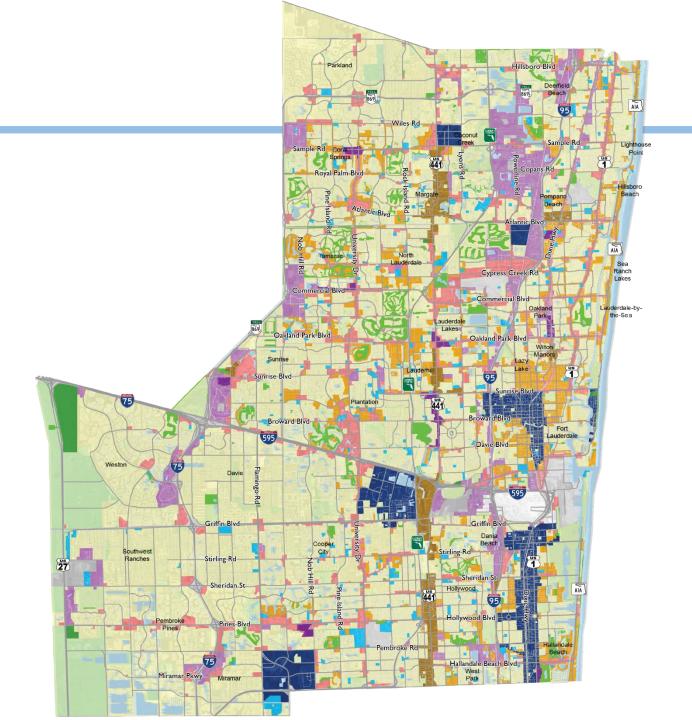
Obtain crash data from CARS for statemaintained roadways and from Signal Four Analytics for non-state roadways

Merge to one Bicycle/Pedestrian crash data base

Enter crash data base into PBCAT - Conduct analysis

Future Land Use



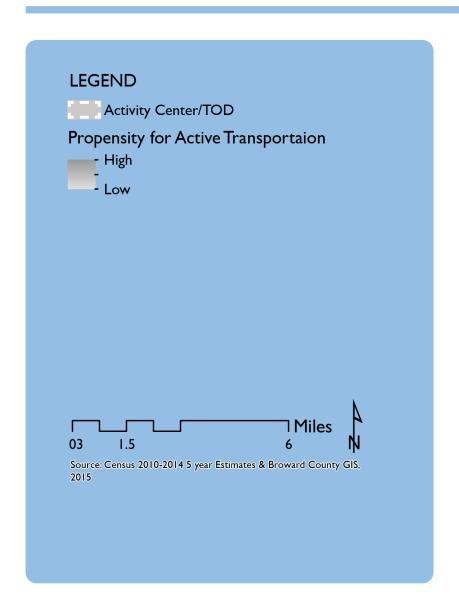


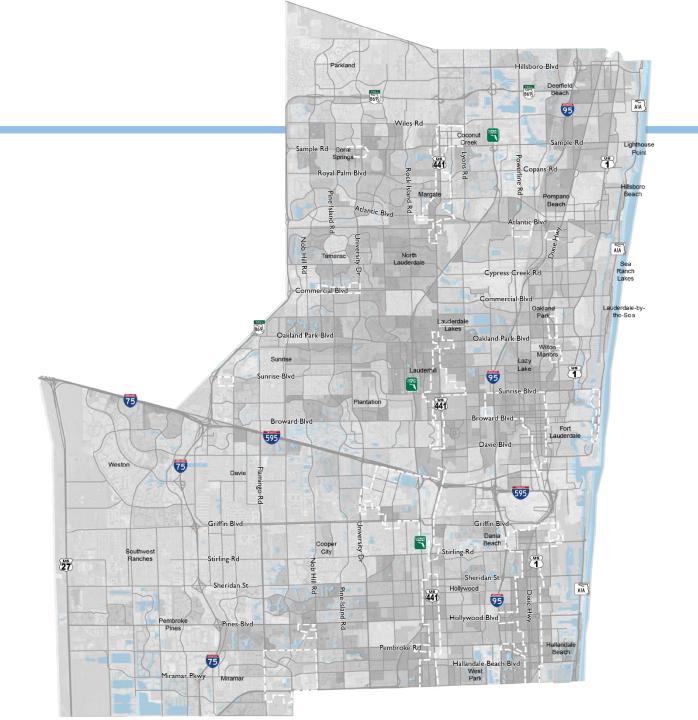


Active Transportation Demand Score

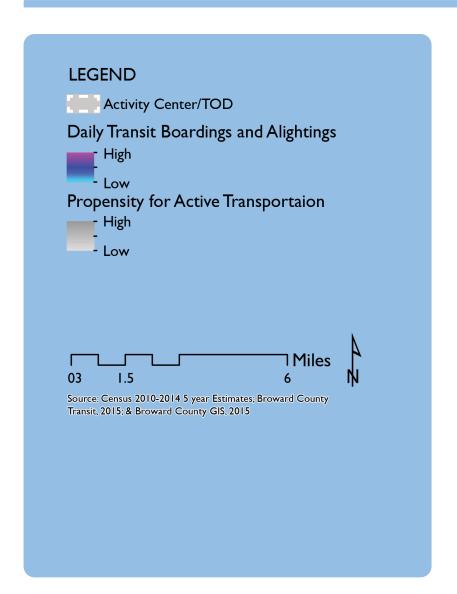
- Population Density (persons per acre)
- Employment Density (number of employees per acre)
- Children (persons under 18 per acre)
- Elderly (persons over 65 per acre)
- Racial and Ethnic Minorities (racial and ethnic minorities per acre)
- Poverty Rate (persons with income below the federal poverty line per acre)
- Zero-Car Households (households without access to a car per acre)

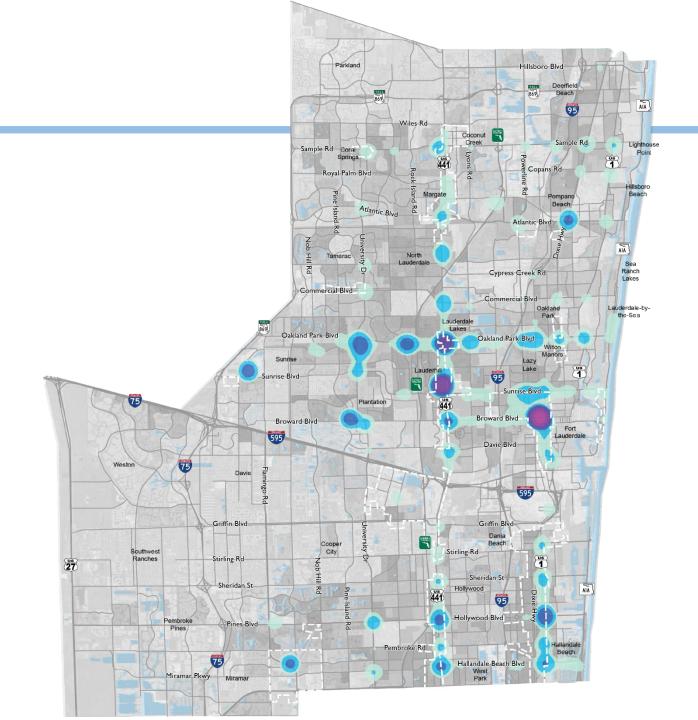
Active Transportation Demand



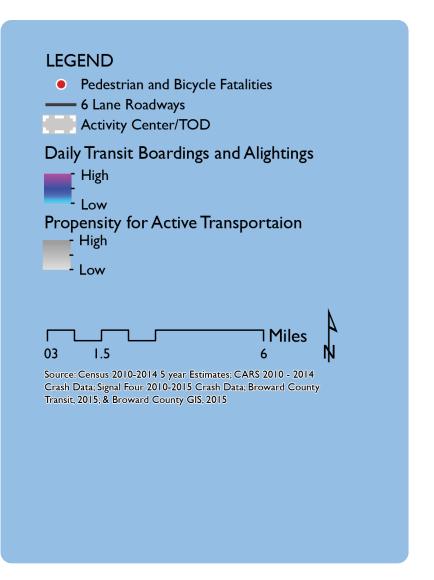


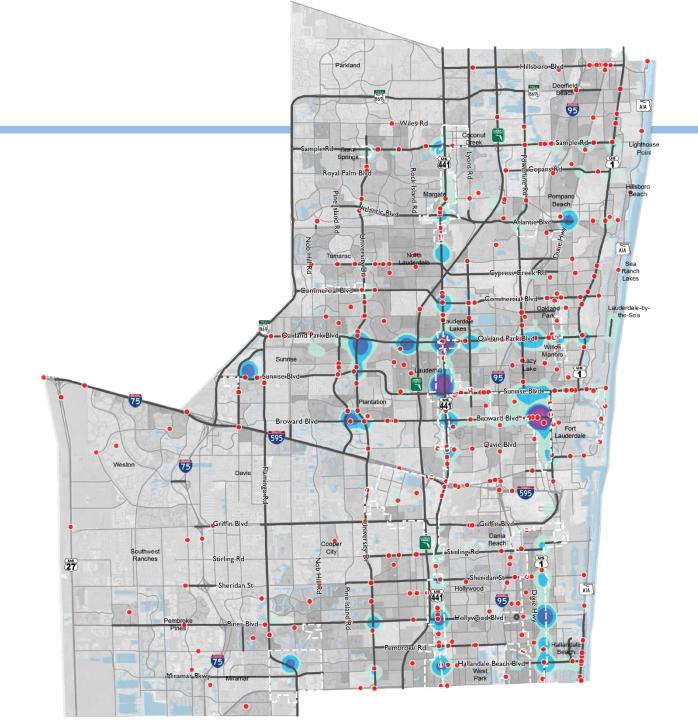
Transit Ridership



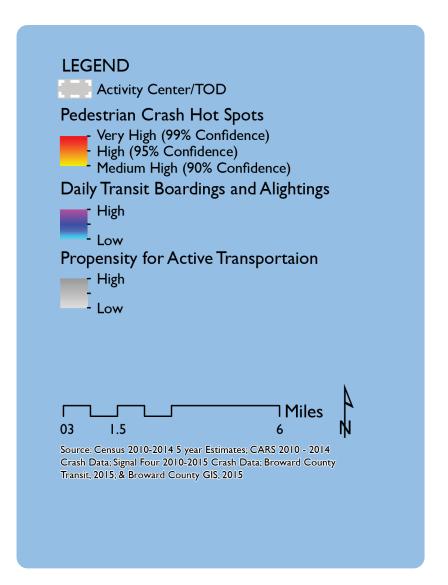


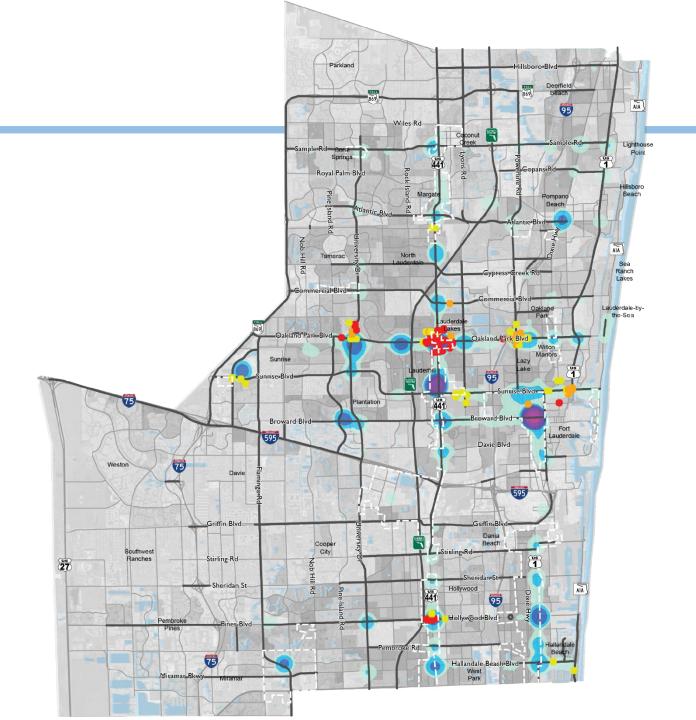
Ped/Bike Fatalities & # of Lanes



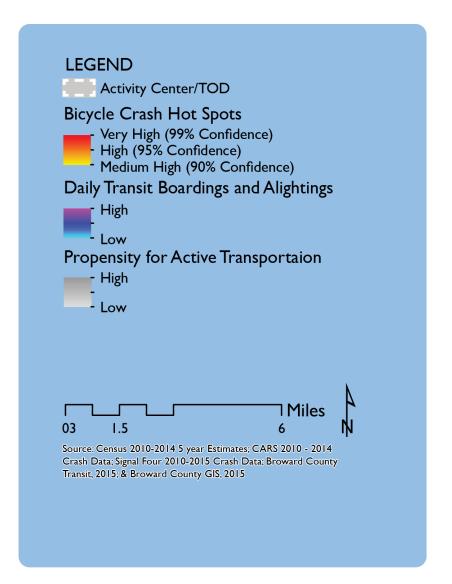


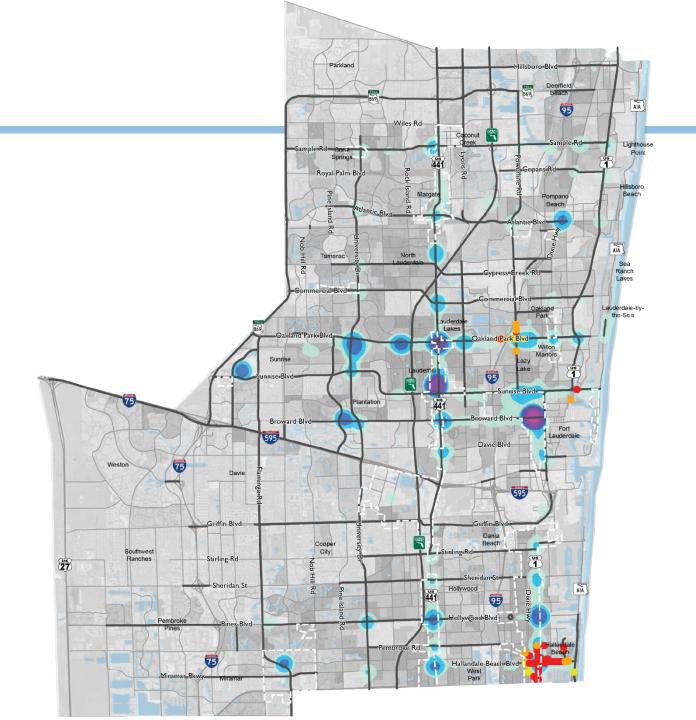
Pedestrian Crash Hot Spots



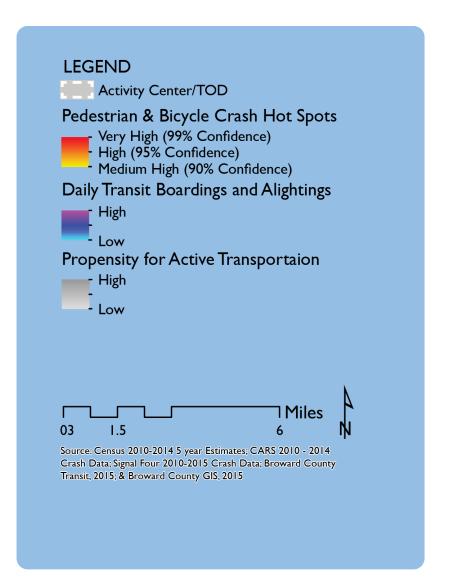


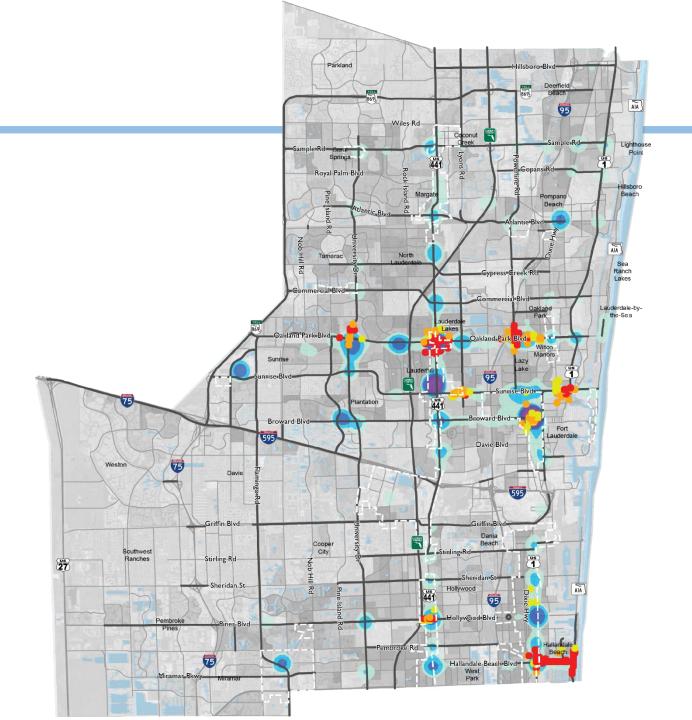
Bicycle Crash Hot Spots





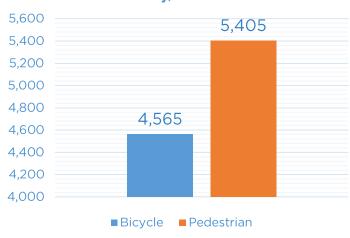
Bicycle Crash Hot Spots





Crash Statistics

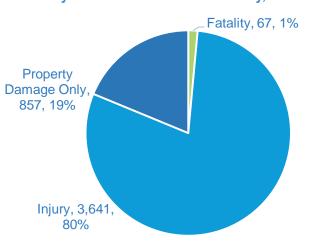
Bicycle and Pedestrian Crashes in Broward County, 2010-2015



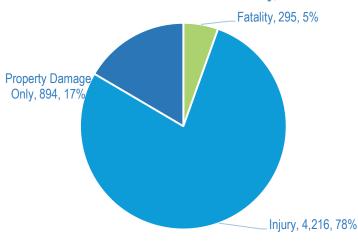
Economic Impact of Bicycle and Pedestrian Crashes, Broward County, 2010-2015 (in billions)



Bicycle Crashes in Broward County, 2010-2015



Pedestrian Crashes in Broward County, 2010-2015



Corridor/Hot Spot Analysis

DATA COLLECTION

- Corridor Specific Data · Roadway Data
- · Transit Stops
- Land Uses
- Traffic Data
- · Bicycle / Pedestrian Usage Data (if available)
- Procurement Projects

Current Education / Enforcement Efforts

Review all corridor trends

HISTORICAL CRASH ANALYSIS

- · Five years of crash data
- Yearly
- Severity
- Location
- Time of day/day of week
- · Contibuting causes
- Age of bicyclist/pedestrian/ driver

Review crashes involving students traveling to/from school

Generate crash diagrams for the select study corridors

FIELD REVIEWS FOR EACH CORRIDOR

MPO, FDOT and Local

Government Staff

Day 1

- · Pre-Meeting to Discuss Data
- · Afternoon / Night Field Review

Day 2

· Morning Meeting to Discuss Observations

INDIVIDUAL REPORTS FOR **EACH CORRIDOR**



Systemic Analysis

SYSTEMIC COUNTERMEASURE IDENTIFICATION

- Short-Term Countermeasures
- Long-Term Countermeasures

STAKEHOLDER WORKSHOP

Day 1

- · Review Countermeasures Identified
- Review Field Observations
- Review County-Wide Bicycle / Pedestrian Map Generated Above
- · Visit Select Locations with Stakeholders

Day 2

- Refine Countermeasures
- Identify Systemic Countermeasures
- Project Prioritization Methodology

COUNTERMEASURE MATRIX

Includes:

- Safety Concerns
- Countermeasures
- Deployment Levels
- Range of Costs
- Benefits
- · Capacity Building / Training
- Education / Outreach Strategies
- Enforcement Mechanisms

PROJECT PRIORITIZATION

- Review state, county and city work program projects
- Develop stand-alone systemic projects
- Review prioritization with stakeholders

DEVELOP FINAL ACTION PLAN

Project Prioritization input into Complete Streets Master Plan

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Top 10 Hot Spots

Pedestrian

- Hollywood Blvd from Florida's Turnpike to N 56th Avenue
- SR 7 from Walmart Shopping Center to Fillmore St
- SR 7 from NW 26th St to NW 37th ST
- Sunrise Blvd at Sawgrass Lake Center
- Sunrise Blvd from NW 34th Ave to NW 31st Ave
- Sunrise Blvd from NE 7th Ave to US 1
- Oakland Park Blvd from NW 84th Ave to Atrium West
- Oakland Park Blvd from CSX to Andrews Ave
- Oakland Park Blvd from NW 47th Terr to NW 45th Ave
- Sistrunk Blvd at NW 4th Ave

Bicycle

- Hallandale Beach Blvd from SW 3rd Ave to SE 26th Ave
- US 1 from SE 9th St to NE 10th Ave
- NE 10th Ave at Atlantic Shores Blvd
- A1A at Hemispheres Condominium
- NW 3rd St at NE 1st Ave
- Sunrise Blvd at Middle River Dr
- NE 7th Street at NE 19th Ave
- Powerline Rd at NW 26th St
- Powerline Rd from Oakland Park Blvd to NW 39th St
- Oakland Park Blvd from NW 17th Terr to NW 3rd Ave

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